DPF CLEANER

Product code: 77004

Issue date: 16/09/2024
Revision date: 16/09/2024
Version: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier
· **Trade name:** 77 Lubricants DPF cleaner
· **Article number:** 10130
· **UFI:** CQFF-44XC-600T-GWNF

1.2 Relevant identified uses of the substance or mixture and uses advised against -
· **Application of the substance / the mixture Surface cleaning**

1.3 Details of the supplier of the safety data sheet
· **Manufacturer/Supplier:**
· Petromark Automotive Chemicals B.V.
· Rooswijkweg 316
· 1951 ME Velsen-Noord – Nederland
· Tel +31 251 211397

· **Further information obtainable from:** Research & Development: sales@petromark.eu

1.4 Emergency telephone number: During normal business hours: Tel: +31 251 211397

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the substance or mixture
· **Classification according to Regulation (EC) No 1272/2008**

GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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2.2 Label elements

· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**


GHS08


GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics.

· **Hazard statements**

H304	May be fatal if swallowed and enters airways.
H411	Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves / eye protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331	Do NOT induce vomiting.
P403	Store in a well-ventilated place.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**
EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures
· **Description: -**

Dangerous components:		
EC number: 918-481-9 Reg.nr.: 01-2119457273-39	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics. Asp. Tox. 1, H304, EUH066	≥ 75 - < 100%
CAS: 27247-96-7 EINECS: 248-363-6 Reg.nr.: 01-2119539586-27	2-ethylhexyl nitrate Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332, EUH044 ATE: ATE dermal: 1100 mg/kg ATE inhalative: 11 mg/l	≥ 2.5 – < 10%
CAS: 104-76-7 EINECS: 203-234-3 Reg.nr.: 01-2119487289-20	2-Ethyl-1-hexanol Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 ATE: ATE inhalative: 11 mg/l	≥ 0.1 – < 1%

· **Additional information:**
The text of the hazard statements mentioned here can be found in chapter 16.
The application of a CRF (Child-Resist Fastening) is mandatory if this product is offered on the consumer market. Please note that the CRF is part of the packaging and not of the classification.
The application of a TWD (Tactile Warning of Danger) is mandatory if this product is offered on the consumer market. Please note that the TWD is part of the packaging and not of the classification.

SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:** Generally the product does not irritate the skin.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** Do not induce vomiting; call for medical help immediately.

· **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

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SECTION 5: FIRE-FIGHTING MEASURES.

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:**
Water haze
Fire-extinguishing powder
Carbon dioxide
Alcohol resistant foam
· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
· **5.3 Advice for firefighters**
· **Protective equipment:** Mount respiratory protective device.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

· **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
· **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
· **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE.

· **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **Information about fire - and explosion protection:** No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Store in a cool location**.**
· **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
· **Storage class:** 10

· **7.3 Specific end use(s)** No further relevant information available**.**

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**		
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics.		
TLV (Germany)	Short-term value: 1200, 184	
104-76-7 2-Ethyl-1-hexanol		
AGW (Germany)	Long-term value: 5,4 mg/m³, 1 ppm	
EU, Y, 11		
· **Regulatory information AGW (Germany):** TRGS 900		
· **DNELs**		
27247-96-7 2-ethylhexyl nitrate		
Oral Dermal	DNEL Long term-systemic DNEL Long term-systemic DNEL Long term-local	0,025 mg/kg bw/day (Consumer) 0,52 mg/kg bw/day (Consumer) 1 mg/kg bw/day (Worker) 0,044 mg/cm2 (Worker)
Inhalative	DNEL Long term-systemic DNEL Long term-local	0,087 mg/m3 (Consumer) 0,35 mg/m3 (Worker) 0,022 mg/m3 (Consumer)
· **PNECs**		
27247-96-7 2-ethylhexyl nitrate		
PNEC Freshwater sediment PNEC Sewage Treatment Plant PNEC Marine water sediment	0,00074 mg/l(dry weight) (Undefind) 10 mg/l (Undefind) 0,00074 mg/l(dry weight) (Undefind)	

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**
· **Appropriate engineering controls** No further data; see section 7.
· **Individual protection measures, such as personal protective equipment**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
General ventilation
· **Respiratory protection:**
Use suitable respiratory protective device in case of insufficient ventilation.
Filter A2/P2

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· **Hand protection**

Protective gloves 

Solvent resistant gloves
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0,5 mm
· **Penetration time of glove material**
For continuous contact we recommend gloves with breakthrough time of at least 240 minutes, with the preference given to a breakthrough time greater than 480 minutes. For short-term or splash guard we recommend the same. We are aware that suitable gloves that offer this level of protection may not be available.
In that case, a shorter breakthrough time are acceptable as long as the procedures governing maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance of the gloves against a chemical substance, because this depends on the exact composition of the material from which the gloves are made. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye/face protection** Safety glasses
· **Body protection:**
Use protective suit. (EN-13034/6)
Fully skin-covering anti-static, chemical- and oil-resistant clothing and safety shoes are recommended. (EN1149; EN340&EN ISO 13688; EN13034-6).
· **Environmental exposure controls** Use an appropriate container to avoid environmental pollution.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

· **9.1 Information on basic physical and chemical properties**
· **General Information**

· **Physical state**	Fluid
· **Colour:**	Colourless
· **Odour:**	Light
· **Odour threshold:**	Not determined.
· **Melting point/freezing point:**	Undetermined.
· **Boiling point or initial boiling point and boiling range**	184-214 °C (Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics.)
· **Flammability**	Not applicable.

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· **Lower and upper explosion limit**	
· **Lower:**	0,6 Vol % (Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics.)
· **Upper:**	6 Vol %
· **Flash point:**	65 °C
· **Ignition Temperature**	233 °C
· **pH Mixture is non-polar/aprotic.**	
· **Viscosity:**	
· **Kinematic viscosity at 20 °C**	1,7 mm^2/s
· **Kinematic viscosity at 40 °C**	1,3 mm^2/s
· **Dynamic:**	Not determined
· **Solubility**	
· **water at 20 °C:**	0,04 g/l
· **Partition coefficient n-octanol/water (log value)**	>0,60206
· **Vapour pressure at 20 °C:**	0,5 hPa (Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics.)
· **Density and/or relative density**	
· **Density at 20 °C:**	0,798 g/cm^3
· **Relative density**	Not determined.
· **Bulk density:**	790 kg/m^3
· **Vapour density**	Not determined.

· **9.2 Other information**	
· **Form:**	Fluid
· **Important information on protection of health and environment, and on safety.**	
· **Ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product does not present an explosion hazard.
· **Organic solvents:**	90,4 %
· **Solids content:**	2,3 %
· **Molecular weight**	160 g/mol
· **Evaporation rate**	Not determined.

· **Information with regard to physical hazard classes**	
· **Explosives**	Void
· **Flammable gases**	Void
· **Aerosols**	Void
· **Oxidising gases**	Void
· **Gases under pressure**	Void
· **Flammable liquids**	Void
· **Flammable solids**	Void
· **Self-reactive substances and mixtures**	Void
· **Pyrophoric liquids**	Void
· **Pyrophoric solids**	Void
· **Self-heating substances and mixtures**	Void

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· **Substances and mixtures, which emit flammable gases in contact with water**	Void
· **Oxidising liquids**	Void
· **Oxidising solids**	Void
· **Organic peroxides**	Void
· **Corrosive to metals**	Void
· **Desensitised explosives**	Void

SECTION 10: STABILITY AND REACTIVITY.

· **10.1 Reactivity:** No further relevant information available.
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **10.3 Possibility of hazardous reactions:** No dangerous reactions known.
· **10.4 Conditions to avoid:** No further relevant information available.
· **10.5 Incompatible materials:** No further relevant information available.
· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION.

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity**
Based on available data, the classification criteria are not met.

ATE (Acute Toxicity Estimates)		
Oral	ATE	5747 mg/kg
Dermal	ATE	12644 mg/kg
Inhalative	ATE	126 mg/l
· **LD/LC50 values relevant for classification:**		
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics.		
Oral	LD50	>5000 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rabbit)
Inhalative	LC50 (4h)	4951 mg/l (Rat)
27247-96-7 2-ethylhexyl nitrate		
Oral	LD50	>10 mg/kg (Rat)

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
· **Carcinogenicity** Based on available data, the classification criteria are not met.
· **Reproductive toxicity** Based on available data, the classification criteria are not met.
· **STOT-single exposure** Based on available data, the classification criteria are not met.
· **STOT-repeated exposure** Based on available data, the classification criteria are not met.
· **Aspiration hazard** May be fatal if swallowed and enters airways.

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· **11.2 Information on other hazards**
· **Endocrine disrupting properties**
None of the ingredients is listed.

SECTION 12: ECOLOGICAL INFORMATION.

· **12.1 Toxicity**
· **Aquatic toxicity:**

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics.	
EL0 (48h)	1000 mg/l (Daphnia magna)
EL0 (72h)	1000 mg/l (Pseudokirchneriella subcapitata)
LL0 (96h)	1000 mg/l (Oncorhynchus mykiss)

27247-96-7 2-ethylhexyl nitrate	
LC50	2 mg/l /4d (Fish (Brachydanio rerio))
EC50	39 mg/l /2d (Daphnia magna)
	>2,53 mg/l /72h (algae)

· **12.2 Persistence and degradability** Not easily biodegradable
· **12.3 Bioaccumulative potential** No further relevant information available.
· **12.4 Mobility in soil** No further relevant information available.
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
· **12.7 Other adverse effects**
· **Remark:** Harmful to fish
· **Additional ecological information:**
· **General notes:**
Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Harmful to aquatic organisms

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SECTION 13: DISPOSAL CONSIDERATIONS.

· **13.1 Waste treatment methods**
· **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

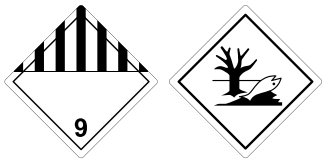
· **European waste catalogue**	
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP14	Ecotoxic

· **Uncleaned packaging:**
· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION.

· **14.1 UN number or ID number**
· **ADR, ADN, IMDG, IATA** UN3082
· **14.2 UN proper shipping name**
· **ADR, ADN** UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ethylhexyl nitrate)
· **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ethylhexyl nitrate, 2-Ethyl-1-hexanol), MARINE POLLUTANT
· **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ethylhexyl nitrate)

· **14.3 Transport hazard class(es)**
· **ADR, IMDG, IATA**



· **Class** 9 Miscellaneous dangerous substances and articles.
· **Label** 9
· **ADN**
· **ADN/R Class:** 9 Miscellaneous dangerous substances and articles.

· **14.4 Packing group**
· **ADR, IMDG, IATA** III

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· **14.5 Environmental hazards:**	
· **Marine pollutant:**	Symbol (fish and tree)
· **Special marking (ADR):**	Symbol (fish and tree)
· **Special marking (IATA):**	Symbol (fish and tree)
· **14.6 Special precautions for user**	Warning: Miscellaneous dangerous substances and articles.
· **Hazard identification number (Kemler code):**	90
· **EMS Number:**	F-A,S-F
· **Stowage Category**	A
· **14.7 Maritime transport in bulk according to IMO instruments**	Not applicable.
· **Transport/Additional information:**	
· **ADR**	
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **Transport category**	3
· **Tunnel restriction code**	(-)
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **UN "Model Regulation":**	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLHEXYL NITRATE), 9, III

SECTION 15: REGULATORY INFORMATION.

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category** E2 Hazardous to the Aquatic Environment
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
None of the ingredients is listed.

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· **REGULATION (EU) 2019/1148**
· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
None of the ingredients is listed.
· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**
None of the ingredients is listed.
· **Regulation (EC) No 273/2004 on drug precursors**
None of the ingredients is listed.
· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
None of the ingredients is listed.
· **National regulations:**
· **Technical instructions (air):**

Class	Share in %
NK	75-<100

· **Waterhazard class:** Water danger class 3 (Self-assessment): extremely hazardous for water.
· **VOC-CH** 90,40 %
· **VOC-EU** 721,4 g/l
· **Danish MAL Code** 5-3

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH044	Risk of explosion if heated under confinement.
EUH066	Repeated exposure may cause skin dryness or cracking.

· **Classification according to Regulation (EC) No 1272/2008**
Physical and chemical properties: The classification is based on the results of the mixtures tested. Health hazards, Environmental hazards: The method of classification of mixtures based on the constituents of the mixture (sum formula).
· **Contact:** info@petromark.eu
· **Date of previous version:** 30.05.2024

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· **Abbreviations and acronyms:**

ADR:	Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
MAL-Code:	Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
DNEL:	Derived No-Effect Level (REACH)
PNEC:	Predicted No-Effect Concentration (REACH)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
PBT:	Persistent, Bioaccumulative and Toxic
vPvB:	very Persistent and very Bioaccumulative
ATE:	Acute toxicity estimate values
Acute Tox. 4:	Acute toxicity – Category 4
Skin Irrit. 2:	Skin corrosion/irritation – Category 2
Eye Irrit. 2:	Serious eye damage/eye irritation – Category 2
STOT SE 3:	Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1:	Aspiration hazard – Category 1
Aquatic Acute 1:	Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1:	Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2:	Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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